Page 1 of 2

70570 NOV 2 5 2003 DEGLAF

PRIOR FOREIGN APPLICATION(S)

Country.

**GB** 

<u>Number</u>

0227745.7

## RULE 63 (37 C.F.R. 1.63) RATION AND POWER OF ATTORNEY FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

As a below harded inventor. Received declare that my residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the INVENTION ENTITLED BLADE COOLING the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56. Thereby claim foreign priority benefits under 35 U.S.C. 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate filed by me or my assignee disclosing the subject matter claimed in this application and having a filing date (1) before that of the application on which priority is claimed, or (2) if no priority claimed, before the filing date of this application:

Date first Laid-

Open or Published

Day/MONTH/Year Filed

28 November 2002

Date Patented

or Granted

Priority Claimed

No

Yes

X

I hereby claim domestic priority applications listed above or belothis application is in addition to material to patentability as definational or PCT international fi	benefit under 35 U.S.6 ow and, if this is a conti that disclosed in such ned in 37 C.F.R. 1.56 iling date of this applic	C. 120/365 of the indicinuation-in-part (CIP) prior applications, I act which became availablation:	ated United States applic application, insofar as th knowledge the duty to di to between the filing dat	cations listed below and PCT international the subject matter disclosed and claimed in sclose all information known to me to be set of each such prior application and the
PRIOR U.S. PROVISIONAL, NON Application No.(series code/serial no	PROVISIONAL AND A	OR PCT APPLICATION(S		<u>Priority Claimed</u> <u>No</u>
of Title 18 of the United States Code Thereby appoint the registered p U.S. Patent and Trademark Off No.: 20736.	and that such willful false practitioners represente	alse statements and the like statements may jeopardize ed by <b>Customer No.: 2</b> swith. Direct all corre	so made are punishable by fi the validity of the application 20736 to prosecute this a spondence to Manelli,	pplication and transact all business in the Denison & Selter PLLC at Customer
1. INVENTOR'S SIGNATURE:_	Roderick	M Town	es.	DATE:United Kingdom
Inventor's Name (typed)	Roderick	М	Townes	United Kingdom
	First	Middle Initial	Family Name	
Residence(City)	Derby	(State) Derbys	<u>hire</u>	
Post Office Address (Include Zip	p Code) <u>5 Amber R</u>	<u>load, Allestree. De</u>	erby, DE22 2QB, E	ngland
				DATE:
Inventor's Name (typed)				DATE
Residence (City)	First	Middle Initial	Family Name	Country of Citizenship
Post Office Address (Include Zip	Code)			
3. INVENTOR'S SIGNATURE: Inventor's Name (typed)				DATE:
Inventor's Name (typed)		(State)	Family Name	Country of Citizenship
Post Office Address (Include Zip	Code)			
				DATE:
Residence(City) Post Office Address (Include Zip	First	Middle Initial (State)	Family Name	Country of Citizenship
ost Onice Address (Include Zip	Code)			
5. INVENTOR'S SIGNATURE:	-		<del></del>	DATE:

Attorney:

W. Warren Taltavull

Reg. No. Atty/Sec: 25647

TEL: (202) 261-1047

Date: November 25, 2003

Fax: (202) 887-0336

Page 1 of 2 Please return signed/recorded to: For Inventions made outside USA executed with or after application USA Patent Appln. NOV 2 5 2003 Sole or Joint Atty. Dkt. 73155 2547 Manelli. Denison & Selfer 2000 M Street N.W. 7th Floor Washington, D.C. 20036 M# Client Ref. NONPROVISIONAL ASSIGNMENT **NONPROVISIONAL** OF NONPROVISIONAL APPLICATION In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to the undersigned, to wit: INSERT Roderick Miles Townes NAME(S) OF INVENTOR(S) (3) (3) X box if continued on page 2 the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto: Rolls-Royce plc, a British Company of INSERT 65 Buckingham Gate NAME(S) OF ASSIGNEE(S) & ADDRESS(ES) London SW1E 6AT **England** (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as TITLE OF INVENTION BLADE COOLING For which the undersigned executed an application for Letters Patent of the United States of America: NOTE (A) even date herewith (COMPLETE (B) [ ] on \_ LINES A.B. AND/OR C) (C) [ ] in U.S. Application No. \_ / filed AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE 

The undersigned hereby authorize(s) Manelli, Denison & Selter PLLC, of the above address to insert hereon any further identification necessary or desirable for recordation of this document. DATE SIGNED Name: Roderick Miles Lownes 2) Name:

IF ADDITIONAL INVENTORS, check box [ ] and continue on page 2.

RECORDATION FORM COVER SHEET PATENT APPLICATIONS & PATENTS ONI	<u>O</u> '
TO THE HONORABLE COMMISSIONER OF PATEN 102613014	9.00
TO THE HONORABLE COMMISSIONER OF PATEN 102613014  SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.	sc
1. NAME OF CONVEYING PARTY(IES) (ASSIGNOR(S)):	72
1. TOWNES, Roderick Miles 2.	. 154
2. 3. 6.	22.
' <del></del>	NO
2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:	
NAME: Rolls-Royce plc	
65 Buckingham Gate London SW1E 6AT	
England	
ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED?	x NO
3. NATURE OF CONVEYANCE (DOCUMENT): (Submit herewith only one document for recordation multiple copies of same Assignment sign is one document)	ed by different inventors
x ASSIGNMENT OF x WHOLE PART INTEREST EXEC. DATE: Octobe	er 1 2003
	.1 1, 2000
CHANGE OF NAME VERIFIED TRANSLATION	
SECURITY MERGER OTHER:	1072033
<ol> <li>EXECUTION DATE(S) ON THE DECLARATION <u>IF</u> FILED HEREWITH: (<u>NOTE</u>: IF DATES ↑↓ <u>SEE ATTY</u>!):</li> </ol>	DIFFER
4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached?	S X NO
A. PAT. APP. NO.(S) M# 1ST INVENTOR B. PATENT NO(S) M# if not in item 1	1ST INVENTOR if not in item 1
84712	
5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:  6. NUMBER INVOLVED:	
APPLNS 1 + PATS: = TOTAL	1
Manelli, Denison & Selter PLLC 7. AMOUNT OF FEE ENCLOSED:	(Code 581)
SEVENTH FLR. LABOUR TOTAL X \$40 - \$40	
2000 M STREET N.W. WASHINGTON, D.C. 20036 Att: Warren Taltavull	
5.5 ATTY DKT  8. IF ABOVE FEE IS MISSING OR CHARGE INSUFFICIENCY TO DEI	INADEQUATE POSIT ACCOUNT
NUMBER: 50-0687  Wwt UNDER ORDER NO	84712
84712 /     // wwt   UNDER ORDER NO	MATTERNO
	D. MATTER NO.
MATTER NO.   CLIENT REF.   dup. sheet not required   CLIENT No.	
9. STATEMENT AND SIGNATURE. To the best of my knowledge and belief the foregoing information is true and correct and any at copy of the original document.  10. Total number of pages including this cover sheet, attachments and document.	
9. STATEMENT AND SIGNATURE. To the best of my knowledge and belief, the foregoing information is true and correct and any at copy of the driginal document.  10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)	tached copy is a true
9. STATEMENT AND SIGNATURE. To the best of my knowledge and belief, the foregoing information is true and correct and any at copy of the driginal document.  10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)	tached copy is a true
MATTER NO.  9. STATEMENT AND SIGNATURE. To the best of my knowledge and belief the foregoing information is true and correct and any at copy of the driginal document.  10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)  Attorney: W. Warren Taltavull	tached copy is a true
MATTER NO. CLIENT REF. dup. sheet not required CLIENT No.  9. STATEMENT AND SIGNATURE. To the best of my knowledge and belief, the foregoing information is true and correct and any at copy of the driginal document.  10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)  Attorney: W. Warren Taltavull  Reg. No. 25647  Date: November 25, 2003	tached copy is a true

2547

Client Ref.

Please return signed/recorded to:

## USA Patent Appln. Sole or Joint

For Inventions made outside USA executed with or after application

Atty. Dkt. 73155

Manelli, Denison & Selter PLLC 2000 M Street N.W. 7th Floor Washington, D.C. 20036

NONPR	OVISIO	NAL			ASSIC	NME	UT.		NONPI	ROVISIONAL
			OF NO	NPR	RÓVISIO	DNAL	APPLICA	ATION		
to the und	In Iersigned	consider , to wit:							uable consi	deration paid
INSERT NAME(S) OI		Roderick Miles To			wnes		(4)			
INVENTOR	(S)							(5)		
		(3)					[ ] X box if c	continued on page	e 2	, , , , , , , , , , , , , , , , , , , ,
the receipt sell(s), ass	t and suff sign(s) ar	iciency o id transfe	of which are er(s) unto:	hereby	acknowled	lged by th	e undersigne	ed who at the	e request of	, hereby
	R	olls-Roy	ce plc, a Br	ritish C	ompany o	f			<del></del> -	
INSERT NAME(S) OF	65	65 Buckingham Gate								
ASSIGNEE(S & ADDRESS	() _ L(	ondon								
		W1E 6A	<u> </u>							
(hereinafte 35 U.S.C. reissues th	r designa 100. in th	ted "ASS	SIGNEE") th on and all ap ulting patent	e entire oplications, know	e right, title ons includii vn as	and interengence	est for the Ur	nited States s, continuation	of America ons, substit	as defined in utes, and
TITLE OF INVENTION	BL/	ADE CO	DOLING							
	For	which th	e yndersign	ed exe	cuted an a	pplication	for Letters P	atent of the	United Stat	tes of America:
NOTE			even date							do or runerica.
(COMPLETE		(B) [	] on							
LINES A,B, A	ND/OR C)									
Successors	, assigns to the inve The on any fur	and lega ention he undersig ther ider	al representa ereby transfe gned hereby itification ne	atives,	deemed es	sential by	est(s) the Un SIGNEE, for ee(s) that the execute any ASSIGNEE on & Selter F ordation of th	to ASSIGNE	EE'S full pro	., แร otection and
1) Name: Ro	Loden derick Mi	ENTOR(	S) Tavye les	5	DATE SIG	63		WITNESSE -	S	
2) Name: —										
3) Name:	<u> </u>									
									<u> </u>	
1) Name: ——									<del></del>	
vame:		·				<del></del> ,				

IF ADDITIONAL INVENTORS, check box [ ] and continue on page 2.



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JUNE 17, 2004

PTAS

MANELLI, DENISON & SELTER PLLC W. WARREN TALTAVULL 2000 M STREET N.W., 7TH FLR. WASHINGTON, D.C. 20036



\*102613014A\*

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 11/25/2003

REEL/FRAME: 014741/0817

NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 84712

ASSIGNOR:

TOWNES, RODERICK MILES

DOC DATE: 10/01/2003

ASSIGNEE:

ROLLS-ROYCE PLC 65 BUCKINGHAM GATE LONLON SW 1E 6AT, ENGLAND

SERIAL NUMBER: 10720333

PATENT NUMBER:

FILING DATE: ISSUE DATE:

TITLE:

014741/0817 PAGE 2

LENELL MACKALL, SUPERVISOR ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS